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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/446,543	12/20/1999	SHUJI HINUMA	2472US0P	2478	
23115	7590 12/03/2003		EXAMINER		
TAKEDA PHARMACEUTICALS NORTH AMERICA, INC INTELLECTUAL PROPERTY DEPARTMENT			MITRA, RITA		
475 HALF I		ART UNIT	PAPER NUMBER		
SUITE 500			1653		
LINCOLNSHIRE, IL 60069			DATE MAILED: 12/03/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Appli	cation No.	Applicant(s)			
Office Action Summary			46,543	HINUMA ET AL.			
			niner	Art Unit			
			Mitra	1653			
Period fo	Th MAILING DATE of this common or Reply	unication appears oi	n tne cover sneet	with the correspondence address	-		
THE - Exte after - If the - If NO - Failt - Any	IORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMU insions of time may be available under the provisior SIX (6) MONTHS from the mailing date of this cole period for reply specified above is less than thirty Diperiod for reply is specified above, the maximum ure to reply within the set or extended period for reply received by the Office later than three month ed patent term adjustment. See 37 CFR 1.704(b).	NICATION. ons of 37 CFR 1.136(a). In a mmunication. (30) days, a reply within the statutory period will apply a ply will, by statute, cause th is after the mailing date of th	no event, however, may e statutory minimum of t and will expire SIX (6) Mi e application to become	a reply be timely filed  nirty (30) days will be considered timely.  DNTHS from the mailing date of this communicat  ABANDONED (35 U.S.C. § 133).	tion.		
1)⊠	Responsive to communication(s) f	iled on <u>07 August 2</u>	<u>2003</u> .				
2a)[]	This action is <b>FINAL</b> .	2b)⊠ This action i	is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>22 and 23</u> is/are pending 4a) Of the above claim(s) is. Claim(s) is/are allowed. Claim(s) <u>22 and 23</u> is/are rejected Claim(s) is/are objected to. Claim(s) are subject to rest	are withdrawn from					
Applicat	ion Papers						
9)[	The specification is objected to by	the Examiner.					
10)[	The drawing(s) filed on is/ar	e: a)⊡ accepted o	or b)□ objected to	by the Examiner.			
	Applicant may not request that any ob	=	•	• •			
44)	Replacement drawing sheet(s) including			= : :	` '		
	The oath or declaration is objected	to by the Examiner	. Note the attach	30 Office Action or form PTO-152.			
•	under 35 U.S.C. §§ 119 and 120						
a) 13)	Acknowledgment is made of a clai  All b) Some * c) None of:  1. Certified copies of the priorit  2. Certified copies of the priorit  3. Copies of the certified copie application from the Internat See the attached detailed Office act Acknowledgment is made of a claim ince a specific reference was include  7 CFR 1.78.  1 The translation of the foreign la Acknowledgment is made of a claim eference was included in the first se	y documents have by documents have by documents have so of the priority document (PCT ion for a list of the confort domestic prioritied in the first sente anguage provisional for domestic priorities.	been received. been received in uments have bee Rule 17.2(a)). certified copies no ty under 35 U.S.Cence of the specified application has by under 35 U.S.Center and the specified application has	Application No n received in this National Stage of received. S. § 119(e) (to a provisional application or in an Application Data Stage) been received. S. §§ 120 and/or 121 since a specification or in an Application Data Stage of the stage of t	heet. fic		
Attachmen	` '		_				
2) Notic	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review mation Disclosure Statement(s) (PTO-1449)			Summary (PTO-413) Paper No(s). <u>0923</u> . Informal Patent Application (PTO-152) .			

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#### **DETAILED ACTION**

In view of the amendment filed on August 7, 2003, prosecution is hereby reopened.

## Status of the Claims

Applicants' amendment and response to office action dated May 7, 2003, filed on August 7, 2003 is acknowledged and has been entered. Claims 20-21 and 24-35 have been cancelled. Claims 22 and 23 have been amended. Therefore, claims 22 and 23 are currently pending and are under examination.

#### Response to Remarks and Arguments

## Withdrawal of Objection/Rejections

The objection to Specification is withdrawn in view of Applicants' amendment to specification and claims by assigning a SEQ ID NO: 5 to 19P2-L31.

The rejection of claims 20-21 and 24-35 under 35 U.S.C. § 112, first paragraph is moot in view of Applicants' cancellation of the claims.

The rejection of claims 20-21 and 24-35 under 35 U.S.C. § 112, second paragraph is most in view of Applicants' cancellation of the claims.

The rejection of claims 20-23 under 35 U.S.C. § 102(a) and 102(e) as being unpatentable over Hinuma et al. (US 6,228,984) is moot in view of Applicants' cancellation of claims 20 and 21. The rejection of claims 22 and 23 is withdrawn in view of Applicants' amendment to claims.

The rejection of claims 20-23 under 35 U.S.C. § 102(a) as being unpatentable over Hinuma et al. (Nature, vol 393, No. 6682, pp272-276, 21 May 1998) is moot in view of Applicants' cancellation of claims 20 and 21. The rejection of claims 22 and 23 is withdrawn in view of Applicants' amendment to claims.

## Rejections under 35 U.S.C. § 112, Second Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claims 22 and 23 stand/are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 22 and 23 stand rejected as being indefinite because they lack essential steps as claimed in the methods. The omitted steps are: the site and method of administration, the therapeutically effective amount of the agent and a step whereby the desired outcome using the claimed polypeptide can be determined. Applicants have not addressed 112, second paragraph rejection in the response of office action dated May 7, 2003.

## New grounds of Rejection

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (c) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 22 and 23 are rejected under 35 U.S.C. 102(a) and 102(e) as being anticipated by Hinuma et al. (US Patent 6, 228,984, Issued May 8, 2001; 102(e) date: February 6, 1997). Hinuma et al. teach a novel ligand polypeptide for the G protein-coupled receptor protein, having an amino acid sequence set forth in SEQ ID NO: 73 or its substantial equivalent thereto, or its

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amide or ester or salt thereof. The polypeptide has an amino acid sequence of SEQ ID NO: 5 (US '984 technical field col. 1; col. 2 lines 36-47 and claims 1, 2). The reference teaches a pharmaceutical composition containing the polypeptide (pituitary function modulator, '984, col. 3, lines 15-17) and has 100% sequence identity to SEQ ID NO: 5 (see alignment result, Database: Issued\_Patents\_AA, AC NO: US-08-776-971-5) (claims 22, 23). Hinuma's polypeptide comprising SEQ ID NO: 5 is considered for the ligand polypeptide having an amino acid sequence of SEQ ID NO: 5 for the use in a method for promoting prolactin secretion, (claims 22-23). Therefore, claims 22-23 of the instant application are anticipated by Hinuma et al.

#### Conclusion

No claim is allowed.

#### Inquiries

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Rita Mitra whose telephone number is (703) 605-1211. The Examiner can normally be reached from 9:30 a.m. to 6:30 p.m. on weekdays. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Dr.Christopher Low, can be reached at (703) 308-2923. Papers related to this application may be submitted to Technology Center 1600 by facsimile transmission. Papers should be faxed to Technology Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Fax Center number is (703) 308-4242. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Rita Mitra, Ph.D. November 25, 2003

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